

20 km north of Urdzhar. Collected on west facing slope in site 05(1995) just up the incline from the road. Soil: Silt, Little rock, good drainage. Variable incline, open, ridges on valleys. Dominant tree sp: *M. sieversii*; Assoc-Crataegus. Dominant shrub sp: *Rosa*; Assoc-Lonicera. Dominant herbaceous: *Humulus*; Assoc-Circium. Rainfall 400mm.

PI 600597. *Malus sieversii* (Ledeb.) M. Roem.

Wild. KAZ 96 03-14; GMAL 4023. Collected 09/03/1996 in Kazakhstan. Latitude 47 deg. 16' 5'' N. Longitude 81 deg. 35' 34'' E. Elevation 800 m. Semipalitinsk Region-Tarbagatai Mt. region. 4 km NE of Alekseyevka, 20 km north of Urdzhar. Collected along road in center of site 09(1995) may have been collected as an elite in 1995. Soil: Silt, Little rock, good drainage. Variable incline, open, ridges on valleys. Dominant tree sp: *M. sieversii*; Assoc-Crataegus. Dominant shrub sp: *Rosa*; Assoc-Lonicera. Dominant herbaceous: *Humulus*; Assoc-Circium. Rainfall 400mm.

PI 600598. *Malus sieversii* (Ledeb.) M. Roem.

Wild. KAZ 96 03-15; GMAL 4024. Collected 09/03/1996 in Kazakhstan. Latitude 47 deg. 16' 5'' N. Longitude 81 deg. 35' 30'' E. Elevation 1030 m. Semipalitinsk Region-Tarbagatai Mt. region. 4 km northeast of Alekseyevka, 20 km north of Urdzhar. Near 03-14, 1/2km north of 03-14. Soil: Silt, Little rock, good drainage. Variable incline, open, ridges on valleys. Dominant tree sp: *M. sieversii*; Assoc-Crataegus. Dominant shrub sp: *Rosa*; Assoc-Lonicera. Dominant herbaceous: *Humulus*; Assoc-Circium. Rainfall 400mm.

PI 600599. *Malus sieversii* (Ledeb.) M. Roem.

Wild. KAZ 96 05-02; GMAL 4025. Collected 09/05/1996 in Kazakhstan. Latitude 45 deg. 41' 1'' N. Longitude 81 deg. 51' 45'' E. Elevation 1240 m. Andreyevka District-Djungarsky Mt. range. 5 miles northwest of Konstantinova. Drainage good, Incline 10-40 degrees, northwest, very open. Cultivation to southeast-forested ridge on northwest, rainfall 700mm. Dominant tree sp: *Malus*, *Betula*, *Populus*. Dominant Shrub sp: *Rosa*.

PI 600600. *Malus sieversii* (Ledeb.) M. Roem.

Wild. KAZ 96 05-03; GMAL 4026. Collected 09/05/1996 in Kazakhstan. Latitude 45 deg. 41' 1'' N. Longitude 81 deg. 51' 45'' E. Elevation 1240 m. Andreyevka District-Djungarsky Mt. range. 5 miles northwest of Konstantinova. Drainage good, Incline 10-40 degrees, northwest, very open. Cultivation to southeast-forested ridge on Northwest, rainfall 700mm. Dominant tree sp: *Malus*, *Betula*, *Populus*. Dominant Shrub sp: *Rosa*.

PI 600601. *Malus sieversii* (Ledeb.) M. Roem.

Wild. KAZ 96 05-04; GMAL 4027. Collected 09/05/1996 in Kazakhstan. Latitude 45 deg. 41' 1'' N. Longitude 81 deg. 51' 45'' E. Elevation 1190 m. Andreyevka District-Djungarsky Mt. range. 5 miles northwest of Konstantinova. Drainage good, Incline 10-40 degrees, northwest, very open. Cultivation to southeast-forested ridge on northwest, rainfall 700mm. Dominant tree sp: *Malus*, *Betula*, *Populus*. Dominant Shrub sp: *Rosa*.

PI 600602. *Malus sieversii* (Ledeb.) M. Roem.